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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

12/29/2008

Frederick W. Gibb, III McGinn & Gibb, PLLC Suite 304 2568-A Riva Road Annapolis, MD 21401 EXAMINER

KENNEDY, ADRIAN L

ART UNIT

PAPER NUMBER

2129

DATE MAILED: 12/29/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,275	03/26/2004	Jayanta Basak	JP920030278US1	2158

TITLE OF INVENTION: DISTRIBUTED CLASSIFICATION OF VERTICALLY PARTITIONED DATA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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	7590 12/29/	/2008	ħave	its own certificate of	f mailing or transmission.		
Frederick W. G McGinn & Gibb, Suite 304	, PLLC		I he State addr trans	Certify that this see Postal Service with essed to the Mail Semitted to the USPTC	icate of Mailing or Trans Fee(s) Transmittal is being a sufficient postage for fir stop ISSUE FEE address 0 (571) 273-2885, on the d	mission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.	
2568-A Riva Ro Annapolis, MD 2						(Depositor's name)	
1						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	А	TTORNEY DOCKET NO.	CONFIRMATION NO.	
10/811,275	03/26/2004		Jayanta Basak		JP920030278US1	2158	
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/30/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
KENNEDY,	ADRIAN L	2129	706-046000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a	e of a single firm (having as a member a ttorney or agent) and the names of up to patent attorneys or agents. If no name is			
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIC	ess an assignee is identi n in 37 CFR 3.11. Comp GNEE	lfied below, no assignee eletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CITY	ntent. If an assignee assignment. and STATE OR CO	UNTRY)	ocument has been filed for	
Please check the appropri			*			oup entity 🚨 Government	
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••	s SMALL ENTITY statu	is. See 37 CFR 1.27.			ENTITY status. See 37 C		
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Authorized Signature				Date			
Typed or printed name			Registration No.				
This collection of informan application. Confident submitting the completed this form and/or suggestit Box 1450, Alexandria, V Alexandria, Virginia 223	iality is governed by 35 application form to the ons for reducing this bur irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 mi idual case. Any com r, U.S. Patent and Tr O THIS ADDRESS. S	public which is to file (annutes to complete, including ments on the amount of tiggemark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	

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7590 12/29/2008			EXAMINER	
Frederick W. Gibb, III			KENNEDY, ADRIAN L	
McGinn & Gibb, PLLC			ART UNIT PAPER NUMBER	
Suite 304 2568-A Riva Road Annapolis, MD 21-			2129 DATE MAILED: 12/29/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 841 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 841 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/811,275	BASAK ET AL.	
Notice of Allowability	Examiner	Art Unit	
	ADRIAN L. KENNEDY	2129	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Report of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate communication is suited.	his application. If not included ication will be mailed in due cours	se. THIS
2. The allowed claim(s) is/are 1,2,4-8,10-12,14 and 15.			
3. ☐ Acknowledgment is made of a claim for foreign priority under the composition of the content of the certified copies of the priority documents have composited as a copies of the priority documents have composited below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submarked in the composite compo	e been received. e been received in Application cuments have been received of this communication to file a MENT of this application. Initted. Note the attached EXAN es reason(s) why the oath or cost be submitted. Is son's Patent Drawing Review of the submitted of the submitted of the submitted. It is same of the submitted of	No in this national stage application for this national stage application for reply complying with the required MINER'S AMENDMENT or NOTIC declaration is deficient. (PTO-948) attached the office action of	ments CE OF
each sheet. Replacement sheet(s) should be labeled as such in to 6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	the header according to 37 CFR esit of BIOLOGICAL MATE	1.121(d). RIAL must be submitted. Note t	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sur Paper No./M 7. ☐ Examiner's A	rmal Patent Application nmary (PTO-413), lail Date mendment/Comment tatement of Reasons for Allowand	ce

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Reasons for Allowance

Claims 1-2, 4-8, 10-12 and 14-15 allowed.

The following is an examiner's statement of reasons for allowance: claims 1-2, 4-8, 10-12 and 14-15 are considered allowable since when reading the claims in light of the specification, as per MPEP §2111.01 or Toro Co. v. White Consolidated Industries Inc., 199 F.3d 1295, 1301, 53 USPQ2d 1065, 1069 (Fed. Cir. 1999), none of the references of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims.

None of the references of record alone or in combination disclose or suggest the combination of limitations of approximating the overall posterior probability of partitioned medical data based upon the estimated posterior probabilities of the consistent classifier subsets (as supported at ¶ 0017), and outputting a combined classification to a display to classify vertically partitioned medical data for maintaining medical data privacy (as supported at ¶ 0002, 0037, and 0039), *inter alia*, as specified in independent claims 1, 6, and 7.

Regarding 35 USC 101, the examiner takes the position that the applicant's claimed invention of independent claims 1, 6, and 7 is statutory due to the fact that it is explicitly tied to a real world apparatus (i.e. a "display") and produces the concrete, useful and tangible result of outputting to a display. This concrete, useful and tangible result is further exemplified, in the applicant claiming the practical application of classifying vertically partitioned medical data for maintaining medical data privacy. Clearly these high level calculations and/or method steps are performed by a computer (as supported at 0036-0042).

The examiner has found that Vaidya et al. (Privacy-Preserving K-Means Clustering over Vertically Partitioned Data) in combination with Kothari et al. (Learning from Labeled and Unlabeled Data) is the closest prior art of record teaching (or suggesting) an invention which classifies vertically partitioned data. However, the examiner has found that the distinct feature of the applicant's claimed invention is the producing of a combined classification based on the overall posterior probability, *inter alia*.

Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adrian L. Kennedy whose telephone number is (571) 270-1505. The examiner can normally be reached on Mon-Fri 8:30am-5pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Vincent can be reached on (571) 272-3080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/ALK/

/David R Vincent/ Supervisory Patent Examiner, Art Unit 2129